

MATERIE PLASTICHE

## Product Safety Data Sheet

Product: **SIRSTIR**

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Rev.: 02/03/2011  
It replaces: 05/02/2009

### 1. Identification of the substance / preparation and company / undertaking

#### 1.1 Identifier Product

Name: **SIRSTIR**  
Trade names / synonyms: Polystyrene  
CAS: 98444-30-5  
EINECS: This product is a polymer and then, according to European legislation, is not subject to the obligation of the registration

#### 1.2 Use of the substance and identified relevant uses deprecated

Use relevant identified: Extrusion, Injection  
Uses advised against: None identified

#### 1.3 About the supplier Safety Data Sheet

Manufacturer:  
Company Name: see footnotes  
e-mail address of the competent person responsible for the card: [rqa@sir-plastics.com](mailto:rqa@sir-plastics.com)

#### 1.4 Emergency Number:

For more information contact: +39 049 5957542

### 2. Hazards Identification

#### 2.1 Substance

Regulation 1272/2008/EC: Not classified  
Directive 67/548/EEC - 1999/45/EC: Not classified as dangerous

#### 2.2.1 Label elements according to Regulation No 1272/2008

hazard pictograms: ---  
Warning: Danger



Eye protection must be worn



Safety helmet must be worn



Ear protection must be worn



Safety boots must be worn



Safety gloves must be worn



Safety overalls must be worn

Indications of danger:

The molten product adheres to the skin and cause severe burns.  
The process of vapor can irritate the eyes and the respiratory tract  
The fine dust can cause irritation of the eyes.  
Risk of slipping in the presence of spilled material.

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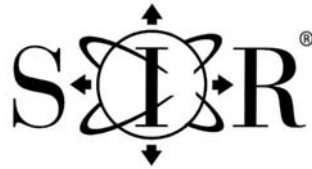
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Fuel if exposed to flame.  
The friction due to sliding of the product can cause static buildup.  
It can lead to sparks, causing fire or explosion of dust in certain concentration limits.

Safety Phrases:

Wear protective gloves / protective clothing / eye protection / face protection.

### 2.2.2 Label elements according to Directive 67/548/EC

Symbol: ---

Hazard: ---

### 2.3 Other hazards

No information available

## 3. Composition / information on ingredients

### 3.1 Substances

The product contains no substances hazardous to health or the environment under the provisions of Directives 67/548/EEC and / or Regulation 1272/2008/EC (CLP) and subsequent amendments

### 3.2 Chemical identity of two main constituent of the substance

name: Polystyrene  
(CAS No. 98444-30-5)

Impurities: None found for classification

## 4. First aid measures

### 4.1 Description of first aid

Inhalation:

In case of excessive inhalation of fumes move the person to fresh air.  
Seek medical attention.  
Keep the person warm and, if necessary, provide artificial respiration.

Skin Contact:

In case of contact with molten product, cool immediately with cold water.  
Do not remove solidified product from the skin.  
Consult your doctor immediately.

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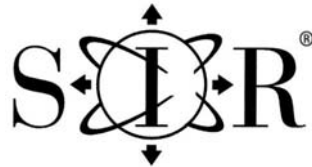
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Contact with eyes: Wash with running water for several minutes holding the eyelids wide open and see your doctor.

Ingestion: No specific measures in case of ingestion of the product as it is. If you must call the doctor

#### 4.2 Major symptoms and effects, both acute and delayed

Major acute effects: No information available

Main effects: No information available

#### 4.3 Indication of the possible need to consult a doctor immediately and special treatments

General Information: Consult a physician for all exposures, except those with smaller. Follow the directions contained in section 4.1

### 5. Fire-fighting measures

#### 5.1 Suitable extinguishing

agents Extinguishing Media: In case of minor fires: carbon dioxide (CO<sup>2</sup>), dry powder  
In case of serious fires: foam, water spray to cool surfaces exposed to fire.

Unsuitable extinguishing media: Do not use spears, fire may promote the enlargement of the flames

#### 5.2 Special hazards from the substance or mixture

Hazards: In case of fire can be developed: water (H<sub>2</sub>O), carbon dioxide (CO<sup>2</sup>) and in the absence of oxygen (O<sup>2</sup>), carbon monoxide (CO). The products of combustion are hazardous. In the initial stages of fire (particularly between 400 °C and 700 °C) Is the formation of hydrocarbons and aldehydes (acetic, crotonic). Calorific value: 8000 to 11000 Kcal/Kg

#### 5.3 Recommendations for fire-fighters

Security: If there is a risk of overexposure to vapors or fumes, wear suitable respiratory equipment.

Procedures: Apply appropriate measures of extinction to the surrounding environment and the local situation

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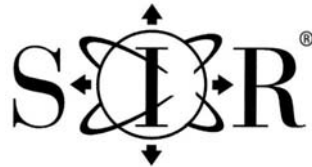
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### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### 6.1.1 For those not directly involved

Personal Protection: Wear appropriate dust mask if you exposure, wear protective clothing and gloves, safety glasses

Purpose: Ensure adequate ventilation or use a respirator

##### 6.1.2 For those directly involved

Material suitable for PPE: See Section 8

#### 6.2 Environmental precautions

Recommendation: The granules scattered on the floor pose a risk of slipping on smooth surfaces.  
Prevent product from entering drains, surface water, ground water and neighboring areas.

#### 6.3 Methods and materials for containment and remediation

Methods to contain and collect: Collect spillage with vacuum or mechanical means.  
Place in container for easy disposal.

Methods: Dispose of in accordance with local regulations, regional and national.

#### 6.4 References to other sections

References: Refer to Section 8 for exposure controls and 13.

### 7. Accidental release measures

#### 7.1 Precautions for safe handling

Safety precautions: No special measures required if handling at room temperature. Do not spill the product because it may cause accidental falls. On heating the material to processing temperatures may develop gas consisting of propylene, ethylene, low molecular weight hydrocarbons and their oxidation products. Residual solvents, traces of formaldehyde and acrolein, traces of acids (formic, acetic). In these working conditions is necessary to provide a suitable extraction system.

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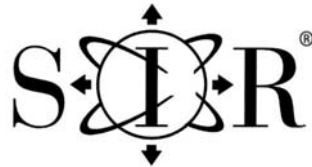
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### General Hygiene Measures:

Experimental tests conducted at different operating conditions have revealed levels of formaldehyde, acrolein, formic acid and acetic acid significantly below the TLV-TWA values.

As with all types of polymer, if handling during transportation or dust is produced, take precautions against the risk of explosion.

For safe handling of the substance is necessary to respect the general measures of occupational hygiene.

These measures include good personal practices and management, not smoking, eating or drinking in the workplace.

Clean and change your clothes at the end of the shift.

Do not wear contaminated clothing home.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Store at room temperature and atmospheric pressure in the original containers (plastic bags or cardboard) or in silos of suitable material (aluminum, stainless steel, ...)

Do not store with flammable materials.

Store away from heat, prevent the accumulation of electrostatic charges, to provide grounding, store in a dry and well ventilated.

Store preferably in a place protected from sunlight or other sources of radiation.

Loads of boards should be stacked to a maximum of two heights.

### 7.3 Specific end uses

#### Recommendation:

No information available

## 8. Exposure controls / personal protection

### 8.1 Control parameters

#### Biological limit values:

No information available

### 8.2 Exposure Controls

#### Control Techniques:

In order to control any exposure, it is recommended to wear appropriate PPE. Use eye protection devices (such as goggles or visors), unless the nature and type of application exclude a potential contact (eg closed-loop processes). Wear protective clothing and safety footwear.

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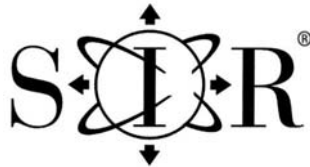
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### Personal Protection:



### Eye Protection Face:

Wear safety glasses with side shields or face shield.

### Skin protection:

Wear suitable protective clothing, gloves and safety shoes

### Respiratory Protection:

If there is a risk of overexposure to dusts, fumes or smoke (during processing of the product), we recommend installing a suction system on the local unit of processing (eg. A hood).  
The work environment must be properly ventilated.  
Wear appropriate dust mask. Recommended Filter type: P1

### Thermal Hazards:

Use a protective mask when handling the molten product if there is adequate ventilation.  
Safety shoes.  
Insulating gloves.  
The selection of suitable gloves not only depends on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
Obtain the glove through time precisely which must be respected.

### 8.3 Environmental exposure controls

#### Precautions:

All ventilation systems must be equipped with a filter.  
Avoid release to the environment.

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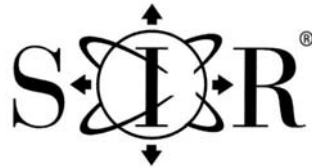
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### 9. Physical and Chemical Properties

#### 9.1 Information on fundamental physical and chemical properties

Appearance:	Granule
Color:	According production
Odour:	Odourless
Melting range (°C)	160 to 165
Flash Point (ASTM D 1929) (°C)	± 350
Autoignition temperature (°C)	> 400
Decomposition temperature : (°C)	> 300
Explosive limits (kg/m <sup>3</sup> )	is not applicable
Density at 20 °C (ISO 1183) (kg/m <sup>3</sup> )	1030
Solubility in water at 20 °C (mg/L)	Insoluble
pH: (pure product)	is not applicable
Viscosity (mm <sup>2</sup> /s)	not applicable

#### 9.2 Information on fundamental physical and chemical properties

Other information:	No information available
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### 10. Stability and Reactivity

#### 10.1 Reactivity

Reactivity:	There is no particular danger of reaction with other substances under normal conditions of use.
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#### 10.2 Stability

Stability:	The product is stable under normal operating conditions (storage, handling and use).
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#### 10.3 Possibility of hazardous reactions

Reactions:	The product in powder form, in contact with air can form an explosive mixture.
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#### 10.4 Conditions to Avoid

Conditions to avoid:	Avoid contact with strong oxidizing agents and fluorine Avoid proximity of flames or sparks is recommended not to heat above 300 ° C.
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#### 10.5 Incompatible materials

Incompatible materials:	No information available
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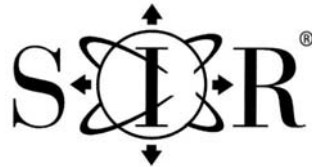
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### 10.6 Hazardous Decomposition Products

Additional information:

During the combustion in the presence of excess air, it forms carbon dioxide (CO<sub>2</sub>) and water vapor.  
For incomplete combustion: carbon monoxide (CO), soot and decomposition products: aldehydes, ketones

Recommendations for prevention of explosion:

Prevent accumulation of dust, installing fabric filters in the circuit of pneumatic conveying.  
Ventilate.  
Carefully designing the electrical system and explosion proof.  
Check the perfect installation.  
Ground all conductive material. In the case of air supply, food intake for the extruder, and preferably use nitrogen as carrier gas.

## 11. Toxicological information

### 11.1 Information on toxicological

Information:

No episodes of damage to health from exposure to the product.

Acute toxicity:

The polyolefins are biologically inert.  
Because of its composition, the product should be considered as practically non-harmful.

Skin corrosion / irritation:

Due to its composition, the product should be considered as practically non-irritating.  
Contact with hot product can cause severe burns.  
The thermal decomposition products are formed at high temperatures may be irritating.

Eye damage / eye irritation serious:

Because of its composition, the product should be considered as practically non-irritating  
Fine dust may cause irritation of the eyes.  
Splashes of molten product can cause burns to eyes.  
The thermal decomposition products are formed at high temperatures may be irritating.

Respiratory / skin sensitization:

Dust may cause irritation to the respiratory system.  
At temperatures above 160 °C can develop fumes that can cause respiratory irritation, coughing and a feeling of breathlessness.

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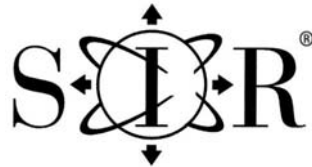
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Mutagenicity of germ cells:	The polyolefins are biologically inert. No particular concern to humans.
Carcinogenicity:	The polyolefins are biologically inert. No particular concern to humans.
Reproductive toxicity:	Polyolefins are biologically inert. No particular concern to humans.

### 12. Ecological Information

#### 12.1 Toxicity

Information on ecological effects:

according to good working practices, avoid dispersion into the environment.

Ecotoxicity:

Because of its structure, the product should be slightly hazardous to aquatic life.

#### 12.2 Persistence and biodegradability

Biodegradation:

The product is readily biodegradable.

BOD 5: (gO<sub>2</sub>/g)

below the detection limit

#### 12.3 Bioaccumulative potential

Bioaccumulation:

Not relevant for inorganic substances.

#### 12.4 Mobility in soil

Water / Air:

The product has low volatility.  
volatile organic compound < 0.5%

Soil and sediment:

In view of its physical and chemical characteristics, the product has a limited mobility in soil.

Water:

In the event of accidental spillage, the product does not float, does not dissolve, and its evaporation in the air is virtually zero.

#### 12.5 Results of the PBT and vPvB

Results:

Not required.

#### 12.6 Other adverse effects

Results:

Not required..

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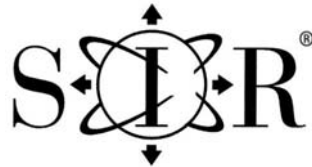
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### 13. Disposal Considerations

#### 13.1 Methods of waste treatment

Directions:

The material can be recovered and recycled in accordance with the provisions in force.

Recovery by a licensed collector

not discharge into drains or watercourses, wells and the environment in general.

It can be used as fuel in all suitable facilities.

Can be incinerated with the trash.

Codes of industrial waste CER:

07 02 13 - 15 01 02 - 17 02 03 - 20 01 39 ; plastic

### 14. Transport Information

No limitation for transport by road (ADR), rail (RID), sea (IMO) and air (ICAO / IATA).

#### 14.1 ONU Number

Not applicable

#### 14.5 Environmental hazards

None

**MARINE POLLUTANT:**

NO

### 15. Regulatory Information

#### 15.1 Standards and legislation on health, safety and environmental specifications for the substance or mixture

Specific legislation:

Permissions:

None required

restrictions on the product or to substances according to the EC

Regulation 1907/2006 Annex XVII:

No

Other EU regulations:

Category Seveso:

No

Candidate Substances List (Article 59 REACH):

No

substances subject to authorization

in Annex XIV REACH):

None

Health checks:

Information not available

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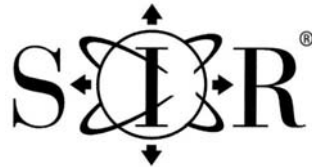
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General law:

1. Directive 67/548/EC and subsequent amendments,
2. Regulation 1272/2008/EC or CLP
3. Regulation No 1907/2006/EC called REACH
4. Directive 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE e 2004/40/CE regarding the improvement of safety and health of workers at work;
5. Directive n. 80/1107/CEE, 82/605/CEE, 83/477/CEE, 86/188/CEE e 88/642/CEE, protection of workers from risks related to exposure to chemical, physical and biological agents at work;
6. Directive 96/61CE, 2000/60/CE, 91/156/CEE, 91/689/CEE, 94/62/CE, 84/360/CEE, 94/63/CE, 1999/13/CE, 1999/32/CE, 93/12/CEE, 2001/80/CE e 2004/35/CE Environment;
7. Regulation ADR ed. 2009;
8. European Agreement concerning the International Carriage of Dangerous Good by Rail – RID (UNICE);
9. IMDG Code – 2007 Edition (Amdt.33) (IMO);
10. Dangerous Goods Regulation 50th edition (IATA).

### 15.2 Chemical Safety Assessment

Was not processed in a safety assessment for chemical substances and the mixture contained therein.

## 16. More information

Training advice:

The use of this product requires specific training. The employee must receive all the information necessary for the safe handling of the product (personal protective equipment and rules of practice).

Acronyms:

PPE: Personal protective equipment  
PBT: Persistent, bioaccumulative and toxic  
vPvB: Very persistent and very bioaccumulative  
TLV - TWA: time weighted average (maximum allowed for exposure)

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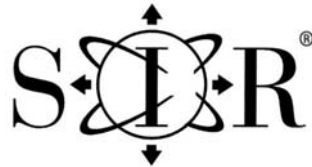
e-mail: [info@sir-plastics.com](mailto:info@sir-plastics.com) – web: [www.sir-plastics.com](http://www.sir-plastics.com)



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Certif. nr. 50-100-8328



MATERIE PLASTICHE

## Product Safety Data Sheet

Product: **SIRSTIR**

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Rev.: 02/03/2011  
It replaces: 05/02/2009

**Bibliography:**

- RTECS (Registry of toxic effects of chemical substances)
- Frostling, Hof, Jacobson, Pfaffli, Zitting,
- "Thermal - decomposition products from plastics", 2
- Polypropylene and polyvinylchloride, 1983

Safety Data Sheet complies with the regulations (EC) N° 1907/2006 (REACH) and 453/2010/EC

This information is based on our current knowledge and will aim to describe the product only for environmental, health and safety.

Should therefore not be construed as a guarantee of product quality specifications.

This document applies to the product SIRTIR and conforming to specifications provided by SIR SpA and used alone.

In the case of formulations or mixtures, make sure that there are no new hazards.

We draw the attention of users about the risks you might encounter if the product is used for purposes other than those for which it is intended.

This card should not be used or reproduced for prevention and safety.

The reference to legislation, regulations and red tape should not be considered complete.

It is the responsibility of the recipient of the product to refer to all official texts concerning the use, storage and handling of the product, the activities for which is solely responsible.

It is also the user's responsibility to provide all those who may come into contact with the product (use, storage, other processes) all the information necessary for job security, the protection of health and the environment by sending them a copy of This Safety Data Sheet.

Changes from previous version:

were modified in the following sections:

01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16

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